

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**

## The Delphion Integrated View

Get Now: <a href="#">PDF</a>   <a href="#">More choices...</a>	Tools: Add to Work File: <a href="#">Create new Work File</a>
View: <a href="#">INPADOC</a>   Jump to: <input type="text" value="Top"/> <input type="button" value="Go"/>	Go to: <a href="#">Derwent</a> <input type="button" value="E"/>

**Title: JP4308524A2: DETERGENT COMPOSITION**

**Derwent Title:** Detergent compsn. having good styling performance - contains sugar-based nonionic surfactant and water-soluble chitin [\[Derwent Record\]](#)

**Country:** JP Japan

**Kind:** A

**Inventor:** IMAMURA TAKASHI;  
RIYUU KORESADA;  
MURAI MICHIKO;

Published / 1992-10-30 / 1991-04-05  
Filed:

Application JP1991000073221  
Number:

IPC Code: A61K 7/075:

Priority 1991-04-05 JP1991000073221  
Number:

Abstract:

**PURPOSE:** To provide a detergent composition containing a sugar-based nonionic surfactant and a water-soluble chitin derivative and giving low irritation to the skin and excellent springiness, body and voluminous feeling to the hair when used for the shampooing of scalp and hair.

**CONSTITUTION:** The objective composition contains (A) 5-20wt.% of a sugar-based nonionic surfactant, e.g. an alkyl saccharide surfactant of formula I (R1 is 6-18C alkyl, alkenyl or alkylphenyl; R2 is 2-4C alkylene; G is 5-6C reducing sugar; (m) is 0-10; (n) is 0-10) or a sugar-amide surfactant of formula II (R3 is 5-17C alkyl, alkenyl or alkylphenyl; R4 is H, 1-18C alkyl, alkenyl, etc.; X is polyhydroxyalkyl consisting of 4-30C sugar residue) and (B) 0.001-10wt.% of a water-soluble chitin derivative, e.g. a water-soluble oligomer produced by depolymerizing chitin or chitosan, a water-soluble chitosan having a deacetylation degree of 40-60% or a derivative made to be water-soluble by the introduction of hydrophilic group.

**COPYRIGHT:** (C)1992,JPO&Japio

INPADOC  
Legal Status:

None Get Now: [Family Legal Status Report](#)

Family: [Show 2 known family members](#)

Other Abstract  
Info:

CHEMABS 118(18)175497Z CAN118(18)175497Z DERABS C92-411555  
DERC92-411555



[Nominate](#)